

FIG. 1

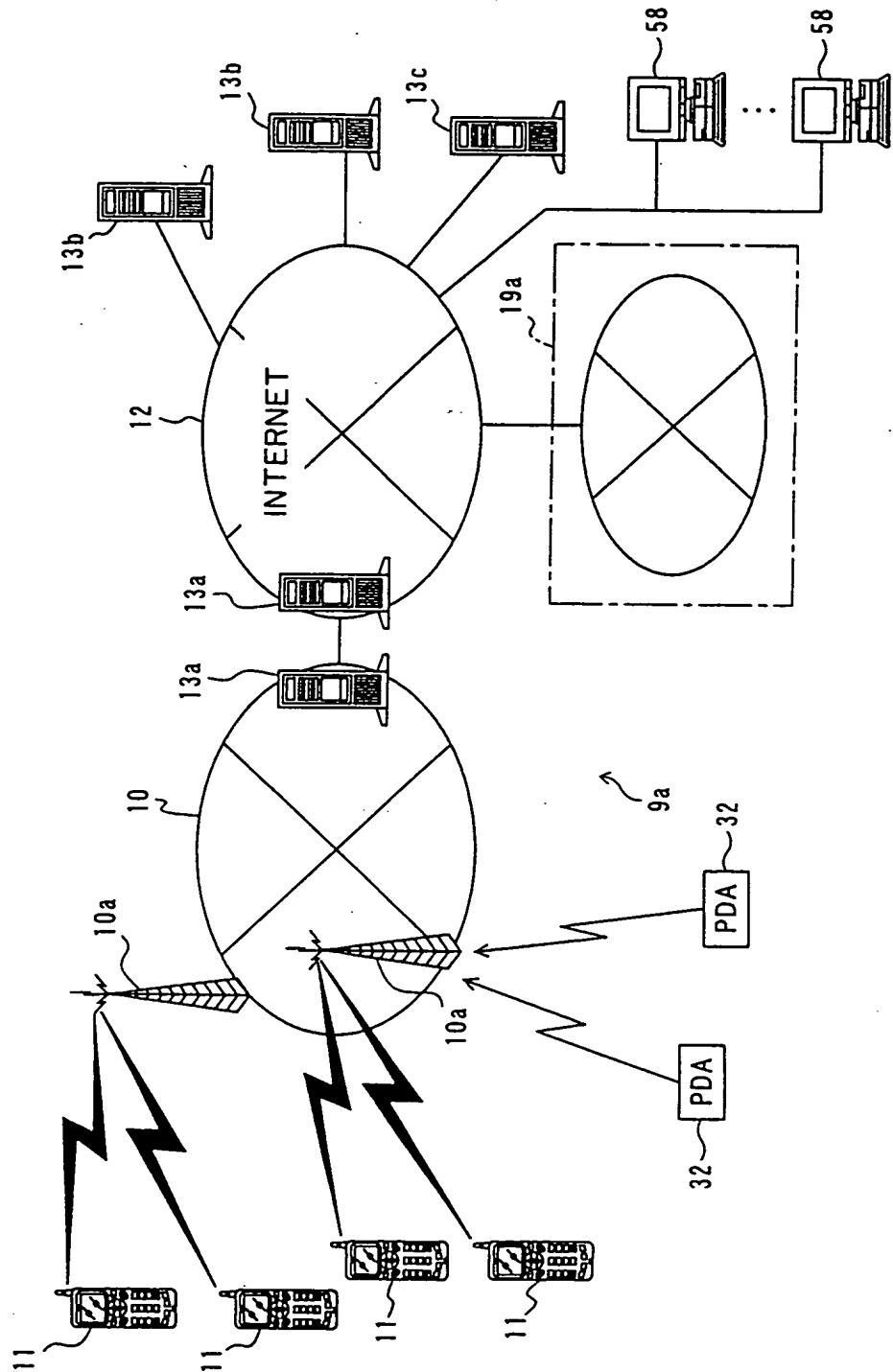


FIG. 2

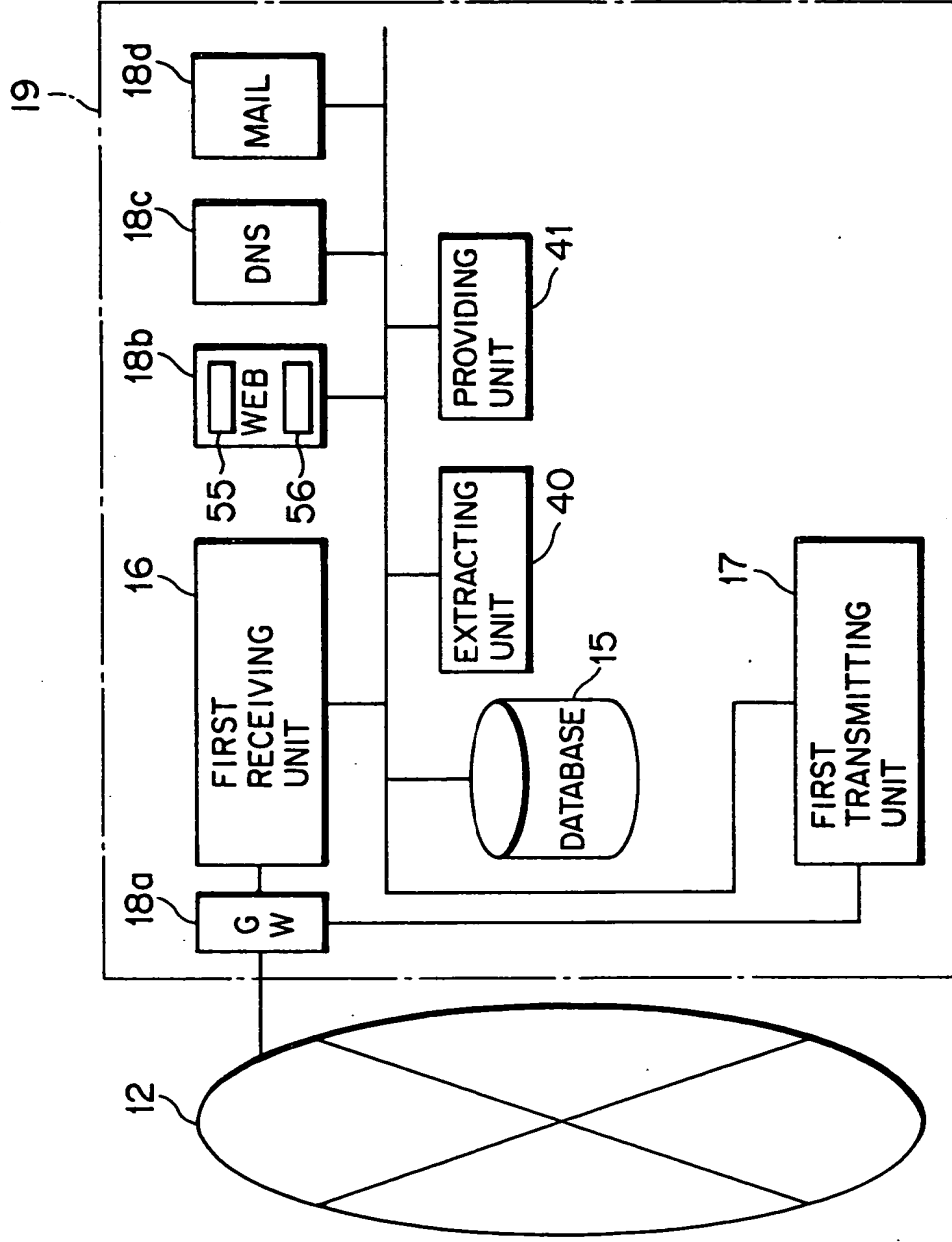


FIG. 3

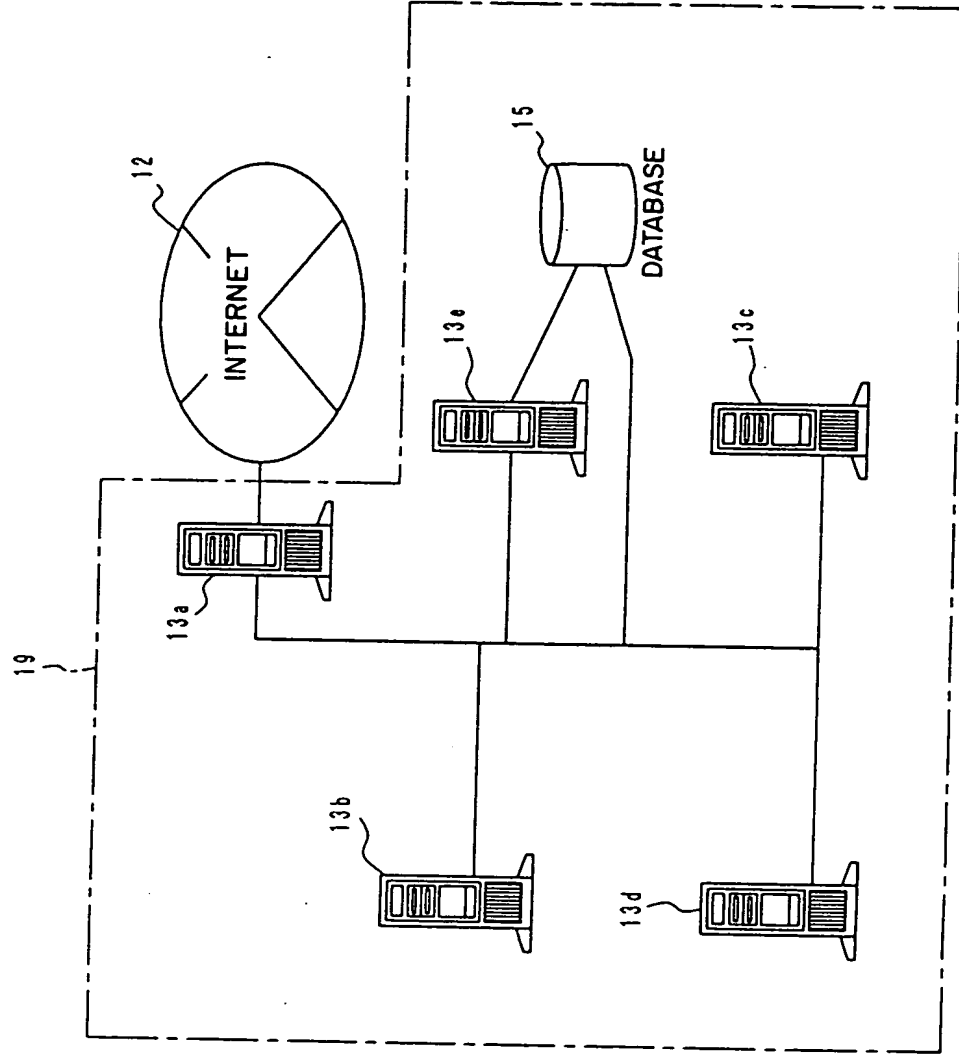


FIG. 4

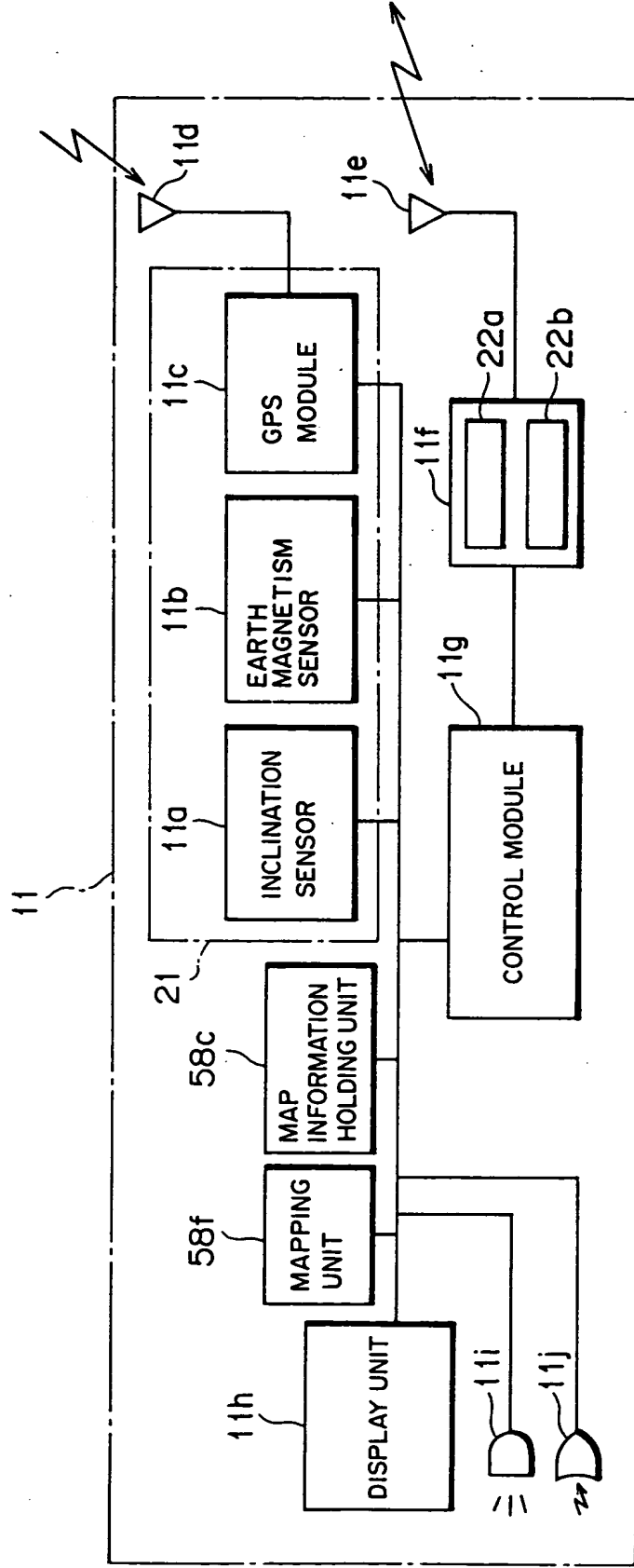


FIG. 5

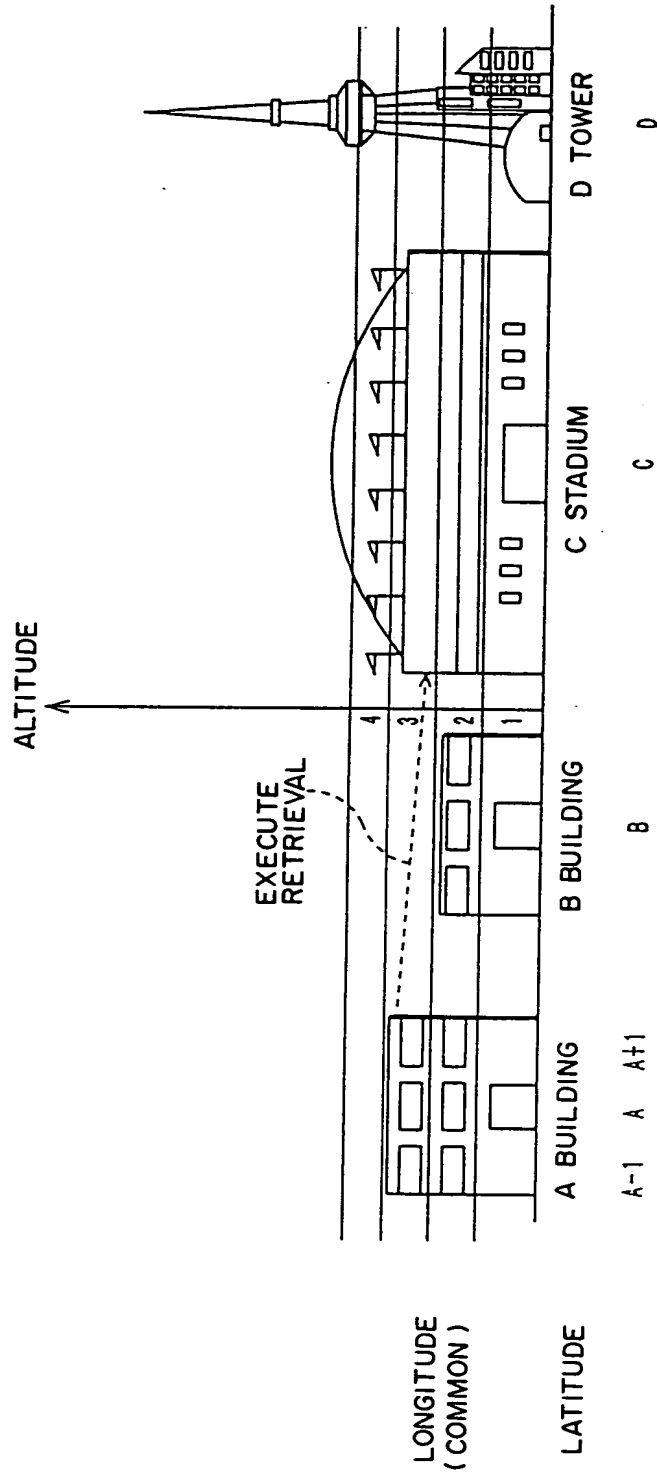
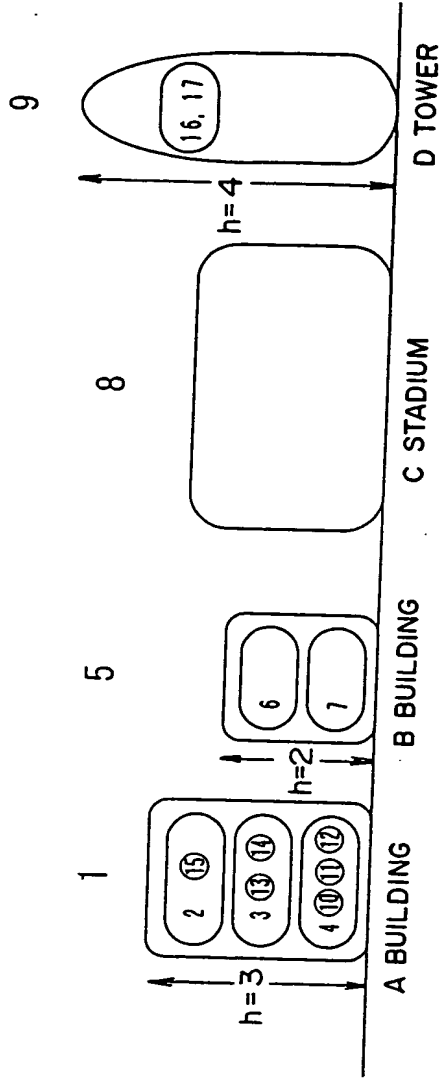


FIG. 6



# FIG. 7

15(15a)

BUBBLE NUMBER	SPATIAL OCCUPANCY INFORMATION	URL	ATTRIBUTE INFORMATION
1	A/X/0/3	<a href="http://www.xxx:100">http://www.xxx:100</a>	PUB
2	A/X/3/1	<a href="http://www.xxx:101">http://www.xxx:101</a>	HOSPITAL (SURGERY)
3	A/X/3/1	<a href="http://www.xxx:101">http://www.xxx:101</a>	HOSPITAL (INTERNAL)
4	A/X/3/1	<a href="http://www.xxx:101">http://www.xxx:101</a>	HOSPITAL (STOMACH AND INTESTINAL)
5	A/X/3/1	<a href="http://www.xxx:101">http://www.xxx:101</a>	HOSPITAL (NOSE AND EAR)
6	A/X/2/1	<a href="http://www.xxx:102">http://www.xxx:102</a>	HOTEL
7	A/X/1/1	<a href="http://www.xxx:103">http://www.xxx:103</a>	GASOLINE STATION
8	B/X/0/2	<a href="http://www.xxx:200">http://www.xxx:200</a>	PREPARATORY SCHOOL (TENTH-GRADE)
9	B/X/0/2	<a href="http://www.xxx:200">http://www.xxx:200</a>	PREPARATORY SCHOOL (TWELFTH-GRADE)
10	B/X/2/1	<a href="http://www.xxx:201">http://www.xxx:201</a>	ITALIAN RESTAURANT
11	B/X/1/1	<a href="http://www.xxx:202">http://www.xxx:202</a>	TAX OFFICE
12	C/X/0/3	<a href="http://www.xxx:300">http://www.xxx:300</a>	STADIUM
13	D/X/0/4	<a href="http://www.xxx:400">http://www.xxx:400</a>	RADIO TOWER
14	A-1/X/1/0.5	<a href="http://www.xxx:110">http://www.xxx:110</a>	RESTAURANT
15	1/X/1/0.5	<a href="http://www.xxx:111">http://www.xxx:111</a>	STATION
16	A+1/X/1/0.5	<a href="http://www.xxx:112">http://www.xxx:112</a>	FIREHOUSE
17	A-1/X/2/0.5	<a href="http://www.xxx:120">http://www.xxx:120</a>	TEMPLE
18	A/X/2/0.5	<a href="http://www.xxx:121">http://www.xxx:121</a>	ELECTRIC APPLIANCES STORE (PERSONAL COMPUTER)
19	A/X/2/0.5	<a href="http://www.xxx:121">http://www.xxx:121</a>	ELECTRIC APPLIANCES STORE (CELL PHONE)
20	A/X/2/0.5	<a href="http://www.xxx:121">http://www.xxx:121</a>	ELECTRIC APPLIANCES STORE (REFRIGERATOR)
21	A/X/3/0.5	<a href="http://www.xxx:130">http://www.xxx:130</a>	CHINESE RESTAURANT
22	D/X/4/0.5	<a href="http://www.xxx:410">http://www.xxx:410</a>	ART MUSEUM
23	D/X/4/0.5	<a href="http://www.xxx:411">http://www.xxx:411</a>	BOOK STORE

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FIG. 8

BUBBLE NUMBER	SPACIAL OCCUPANCY INFORMATION ( LATITUDE / LONGITUDE ALTITUDE / BUBBLE DIAMETER )	OBJECT URL	CONTENT NAME
1	149° 22' 20" / 62° 11' 11" /30/5	http://www.nifty.ne.jp/ gps/user/mori/index.html	A BUILDING
2	149° 21' 15" / 62° 09' 04" /15/20	http://www.nifty.ne.jp/ gps/user/yashi/index.html	B RESTAURANT
3	149° 19' 12" / 62° 14' 07" /50/200	http://www.nifty.ne.jp/ gps/com/fujitsu/index.html	C STADIUM
4			



FIG. 9(a)

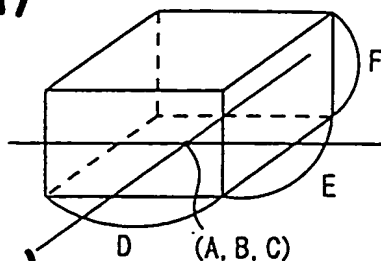


FIG. 9(c)

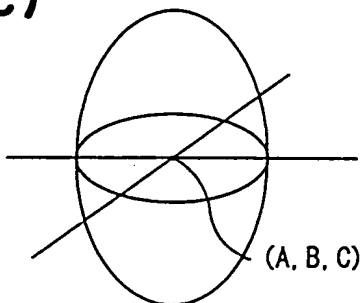


FIG. 9(e)

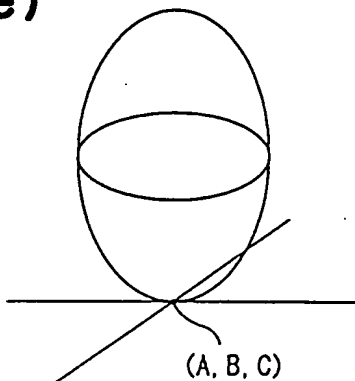


FIG. 9(g)

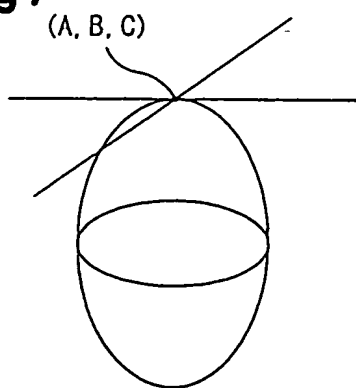


FIG. 9(b)

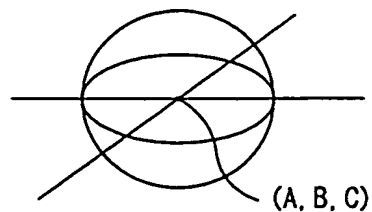


FIG. 9(d)

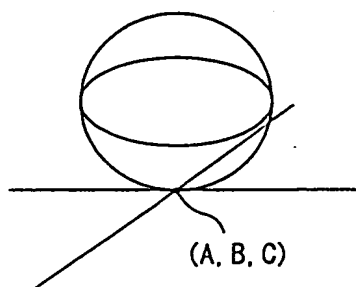


FIG. 9(f)

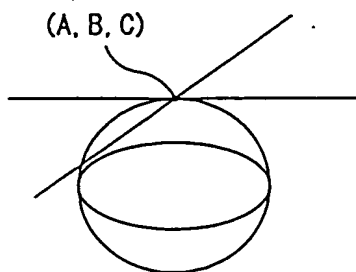
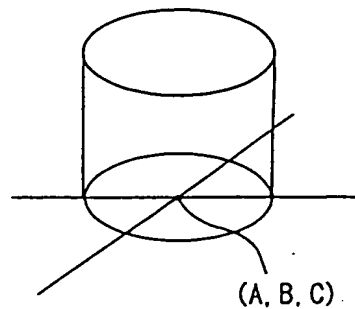


FIG. 9(h)



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FIG. 10

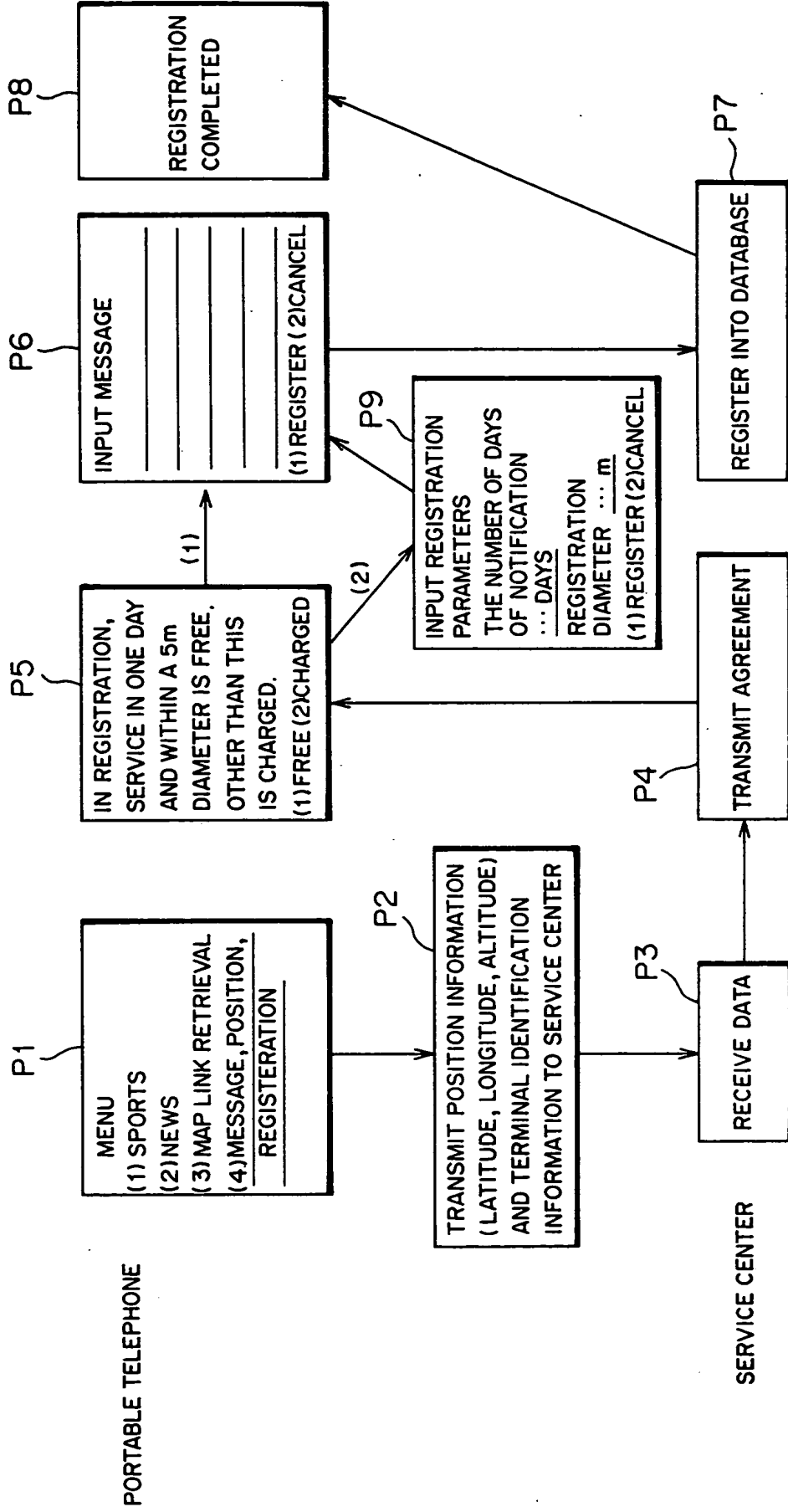


FIG. 11

BUBBLE DIAMETER	INFORMATION NOTIFICATION TIME (DAY)	CHARGE	NOTE
5	1 DAY 2 WEEKS 3 MONTHS	0YEN 100YEN 1000YEN	PERSNAL USE USE TO COLLECT MEMBERS OF A CIRCLE OR THE LIKE MENU OF ONE - MAN SHOP
20	1 DAY 2 WEEKS	1000YEN 5000YEN	AD. OF BARGAIN SALE ROAD GUIDANCE
50	1 DAY 1 WEEK	2000YEN 10000 YEN	FESTIVAL GUIDANCE
100	1 MONTH 6 MONTHS	100000 YEN 500000 YEN	COMPANY AD. ( COMPANY PROFILE )

FIG. 12

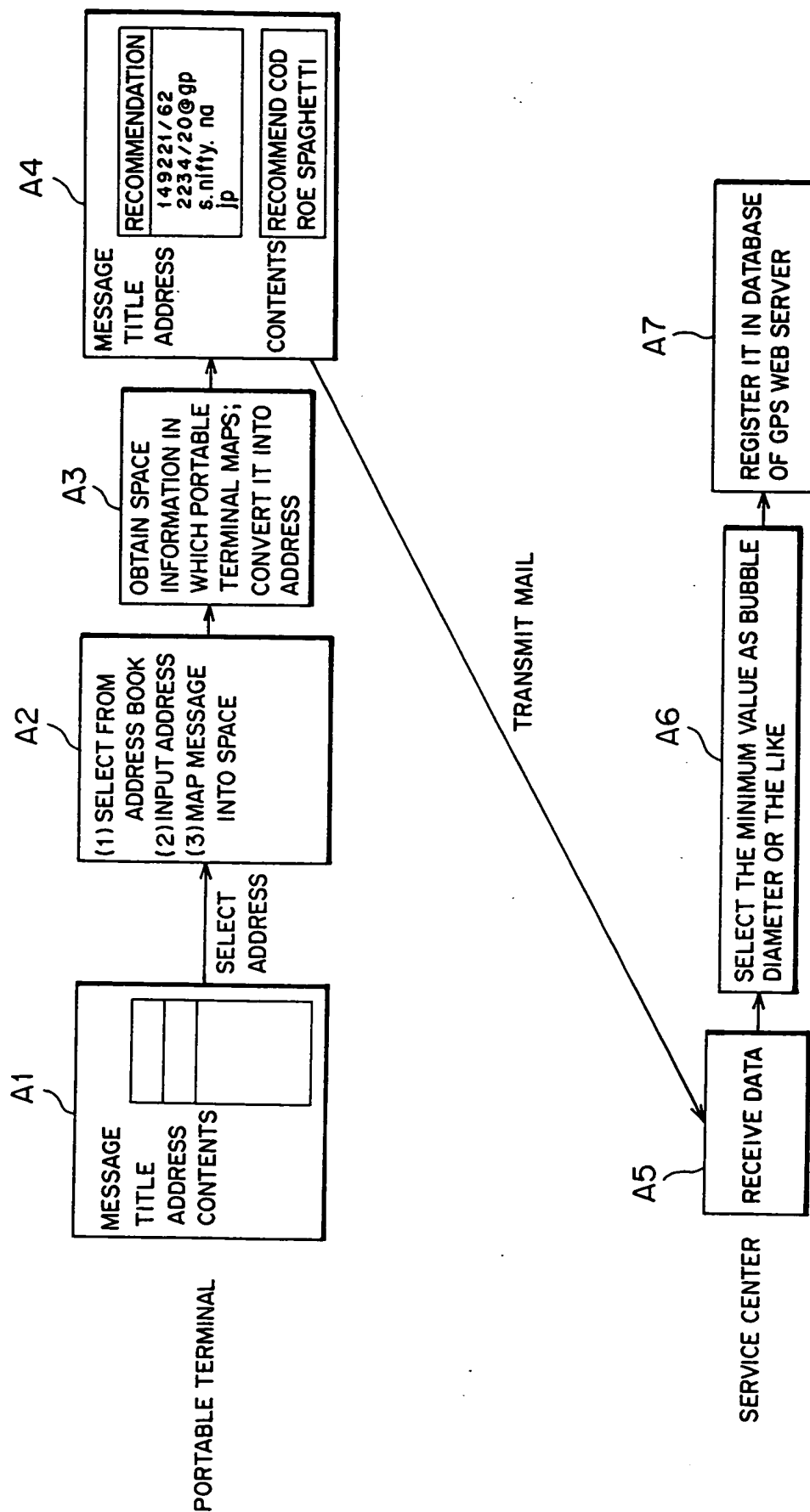


FIG. 13

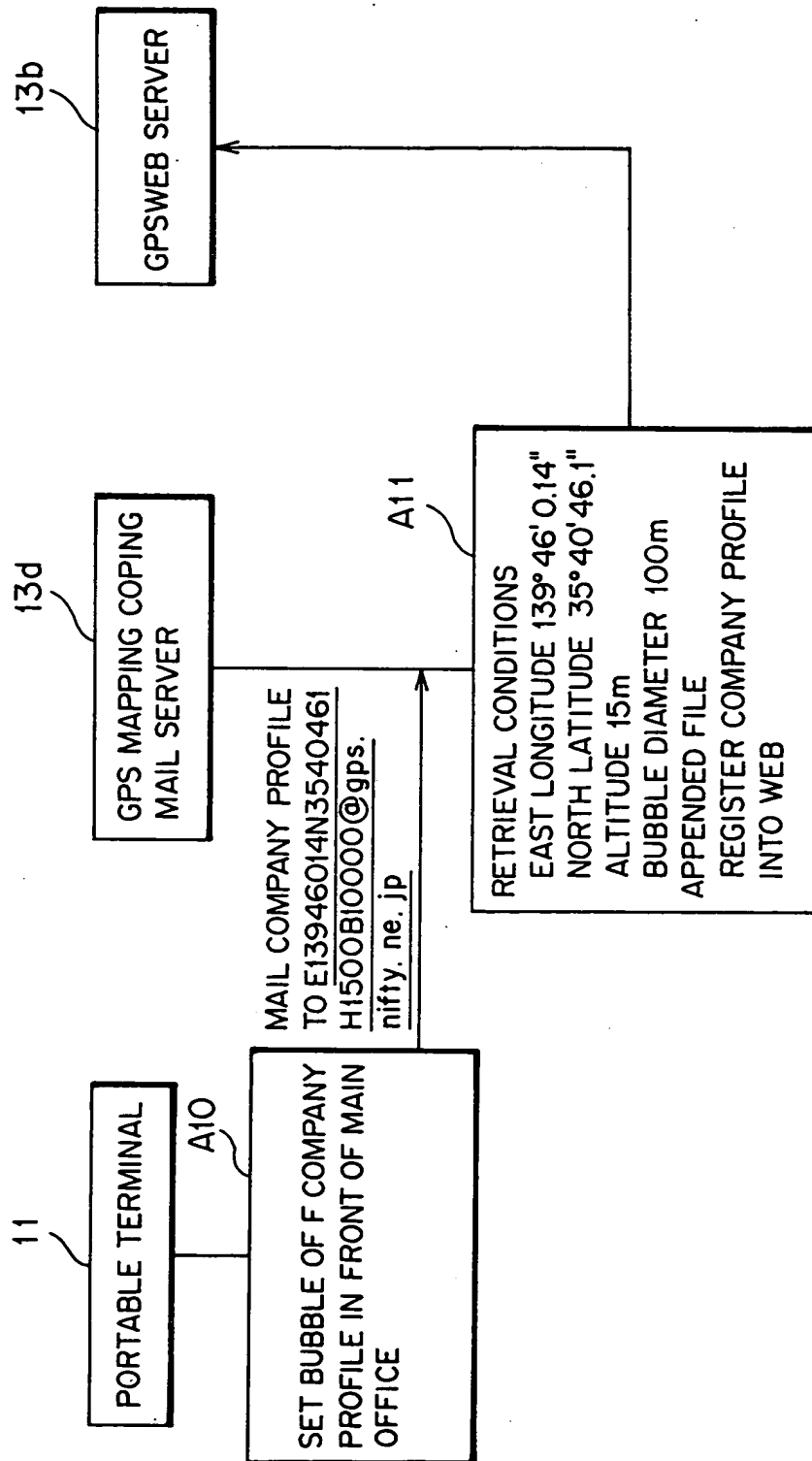


FIG. 14

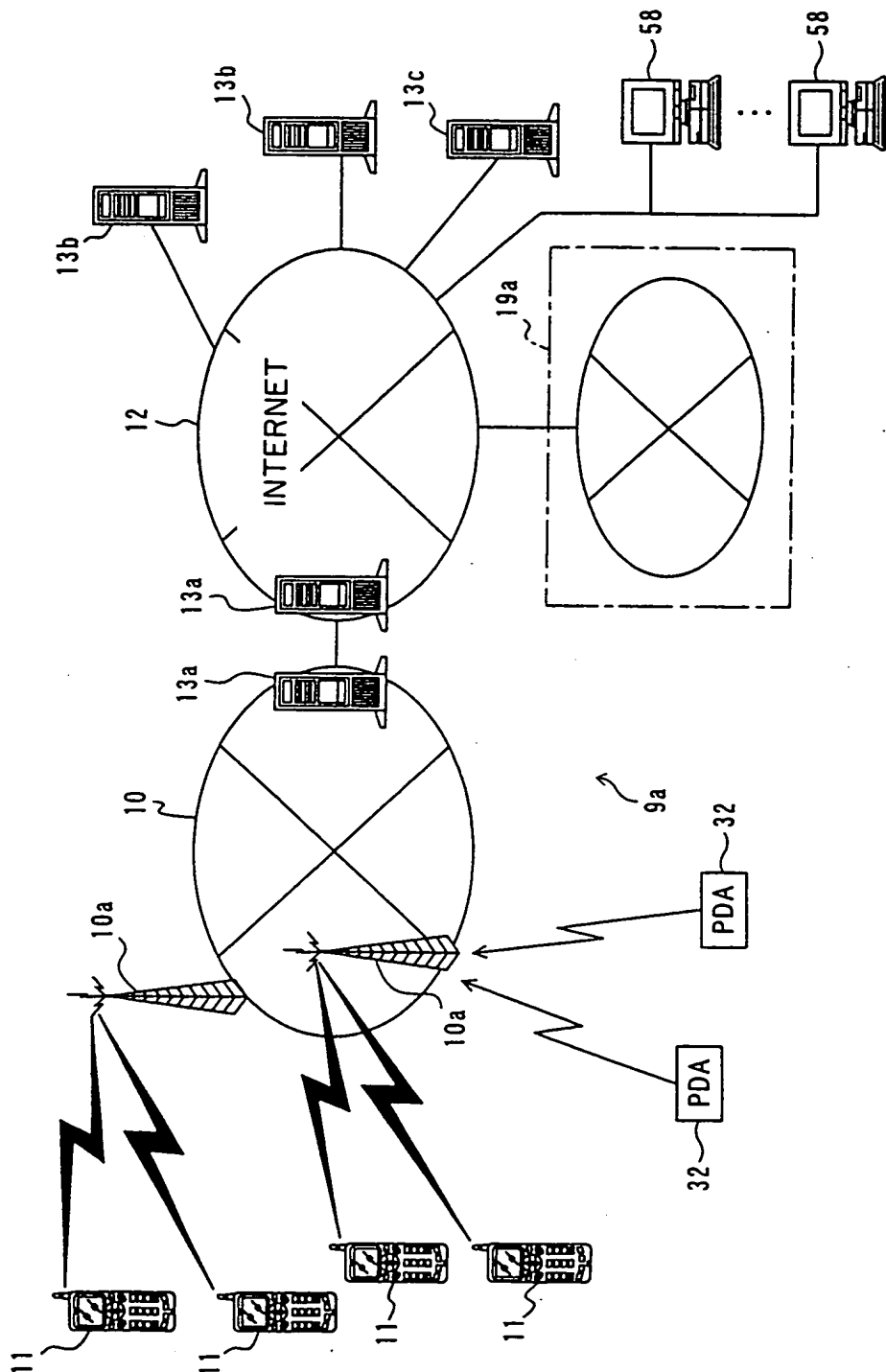


FIG. 15

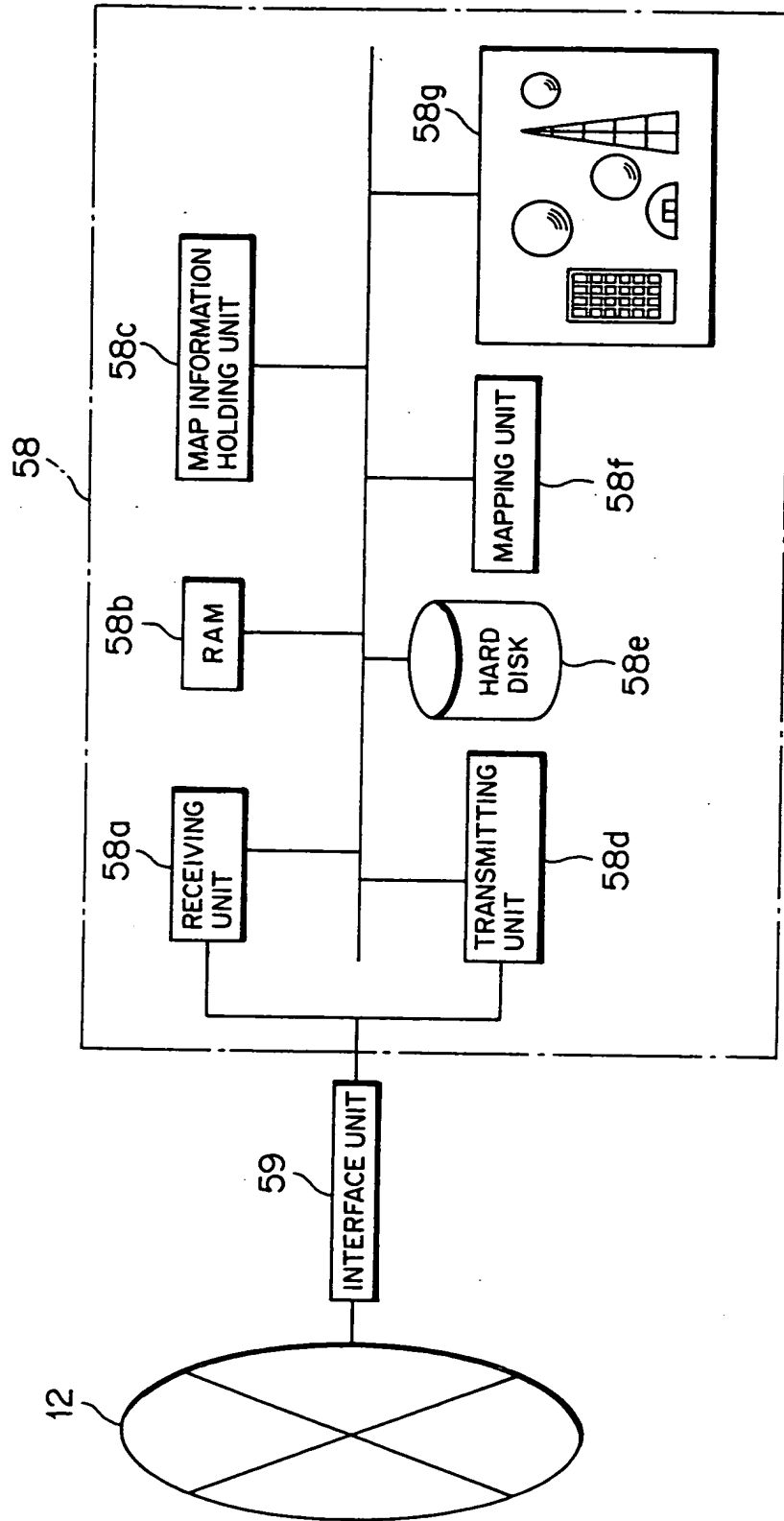


FIG. 16

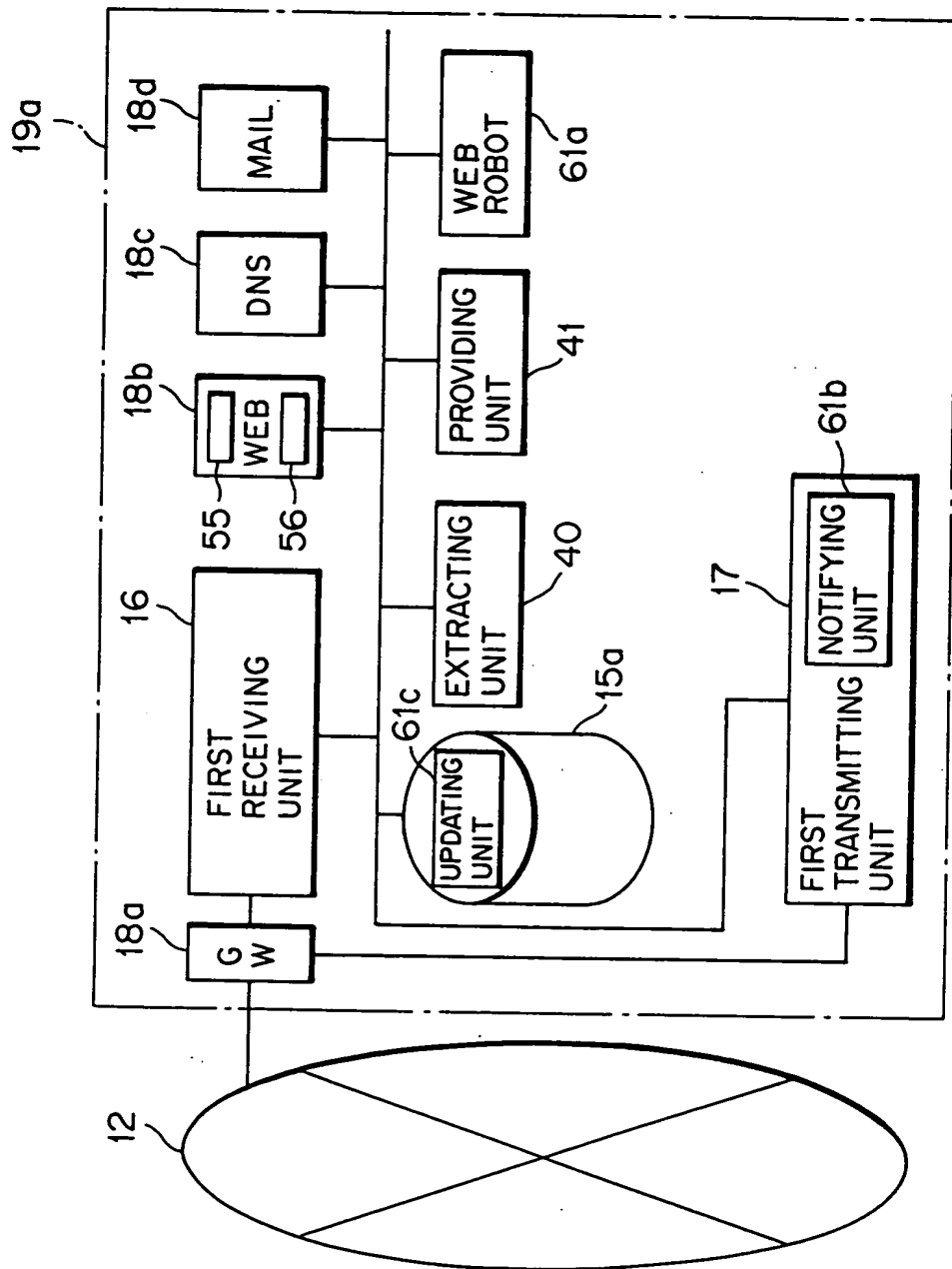




FIG. 17

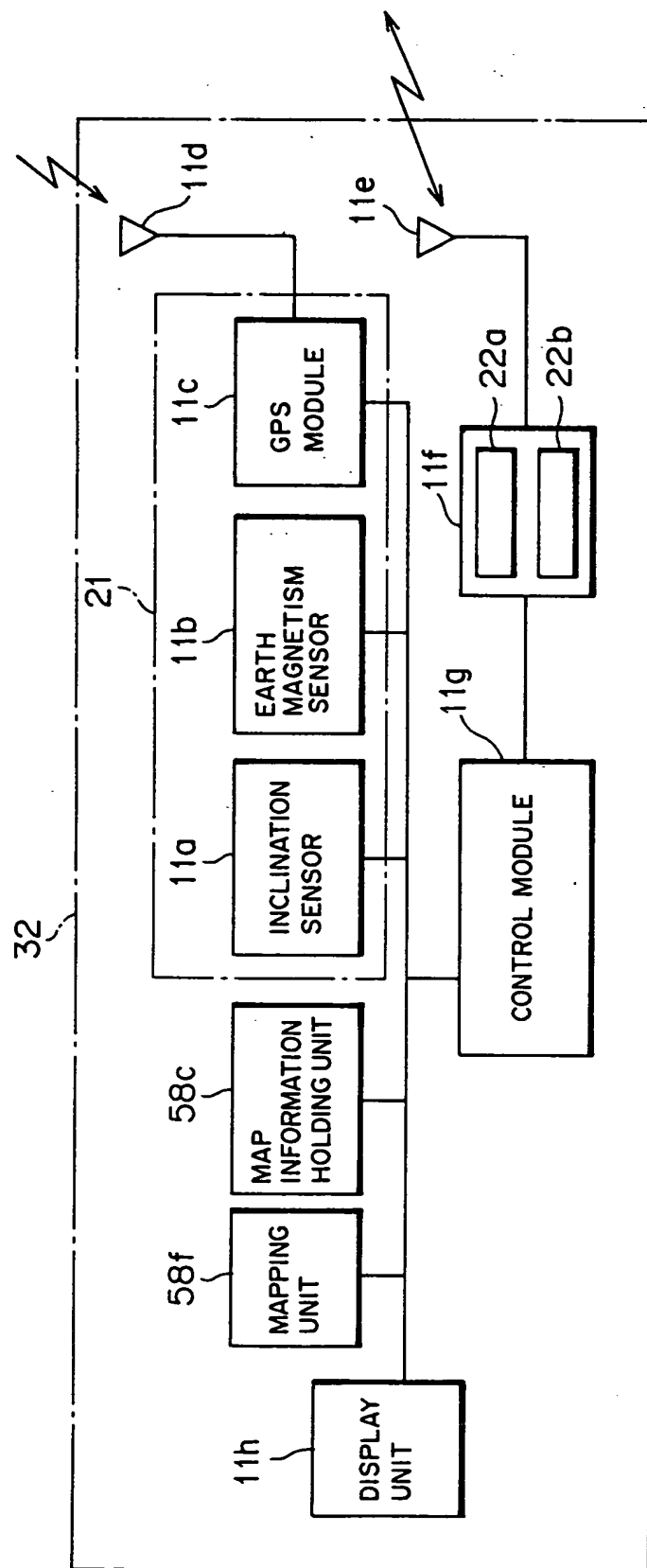
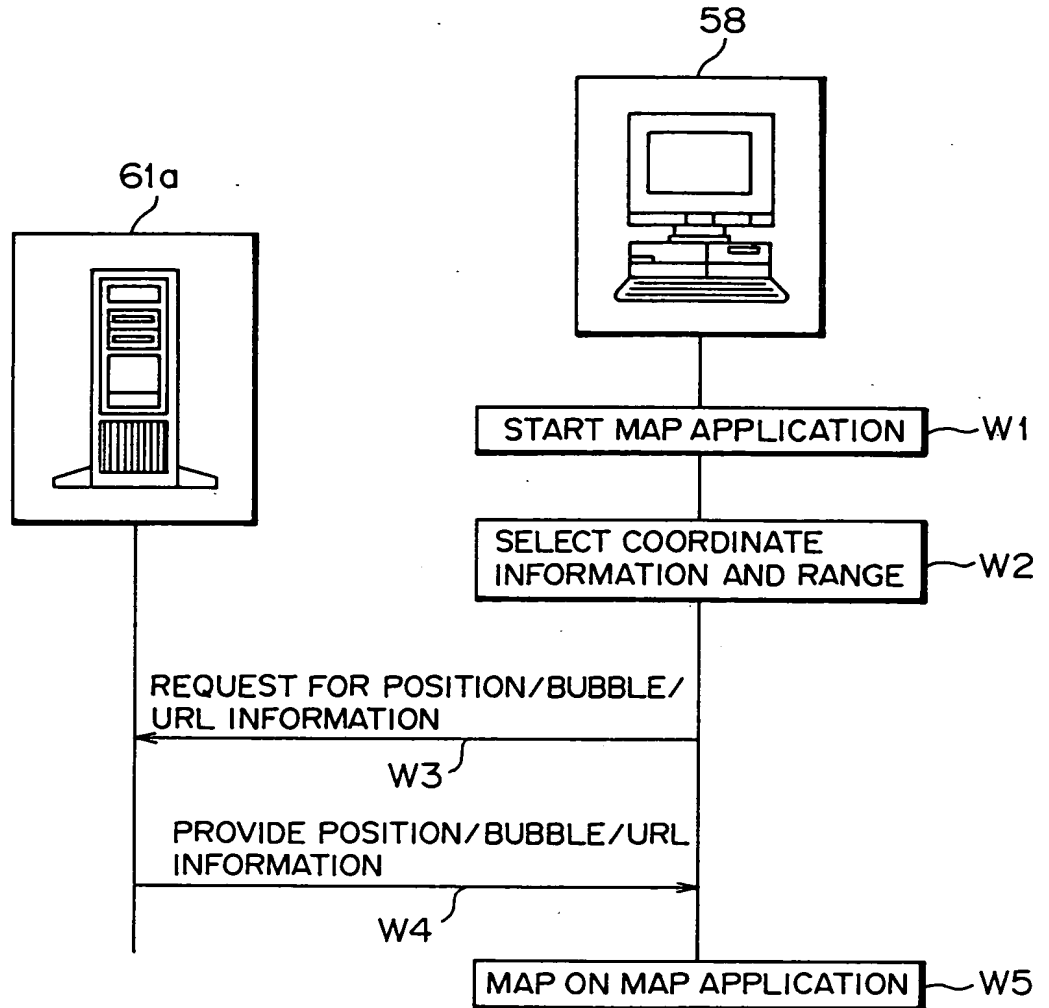


FIG.18



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FIG. 19

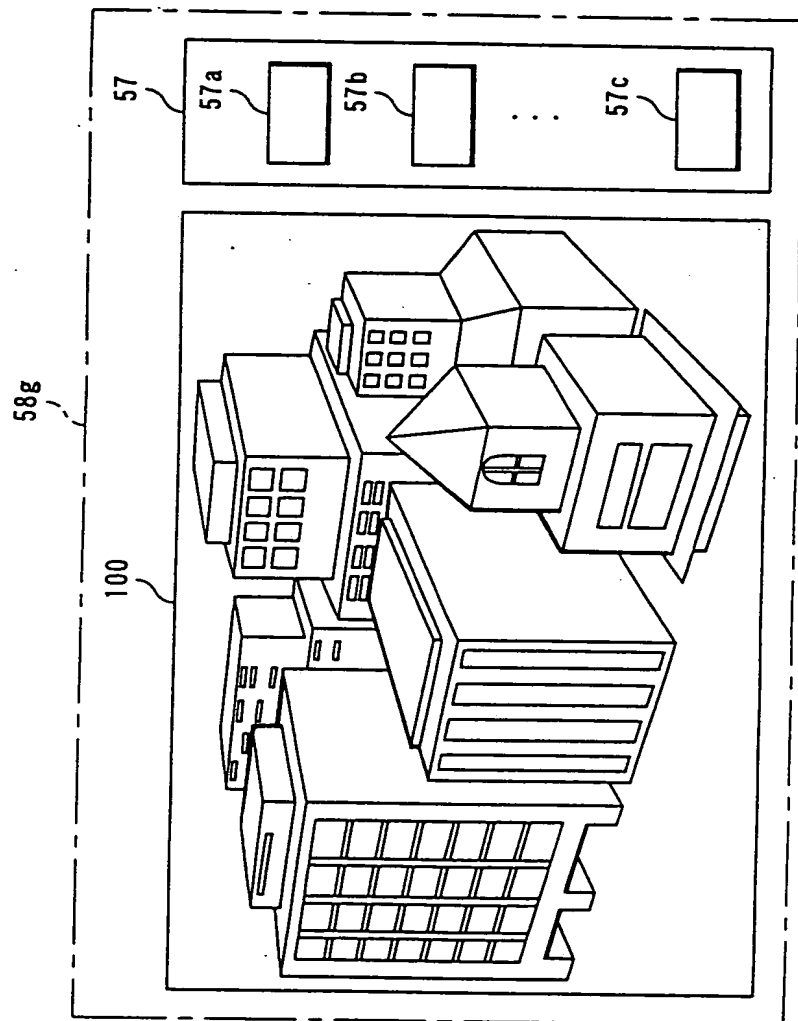
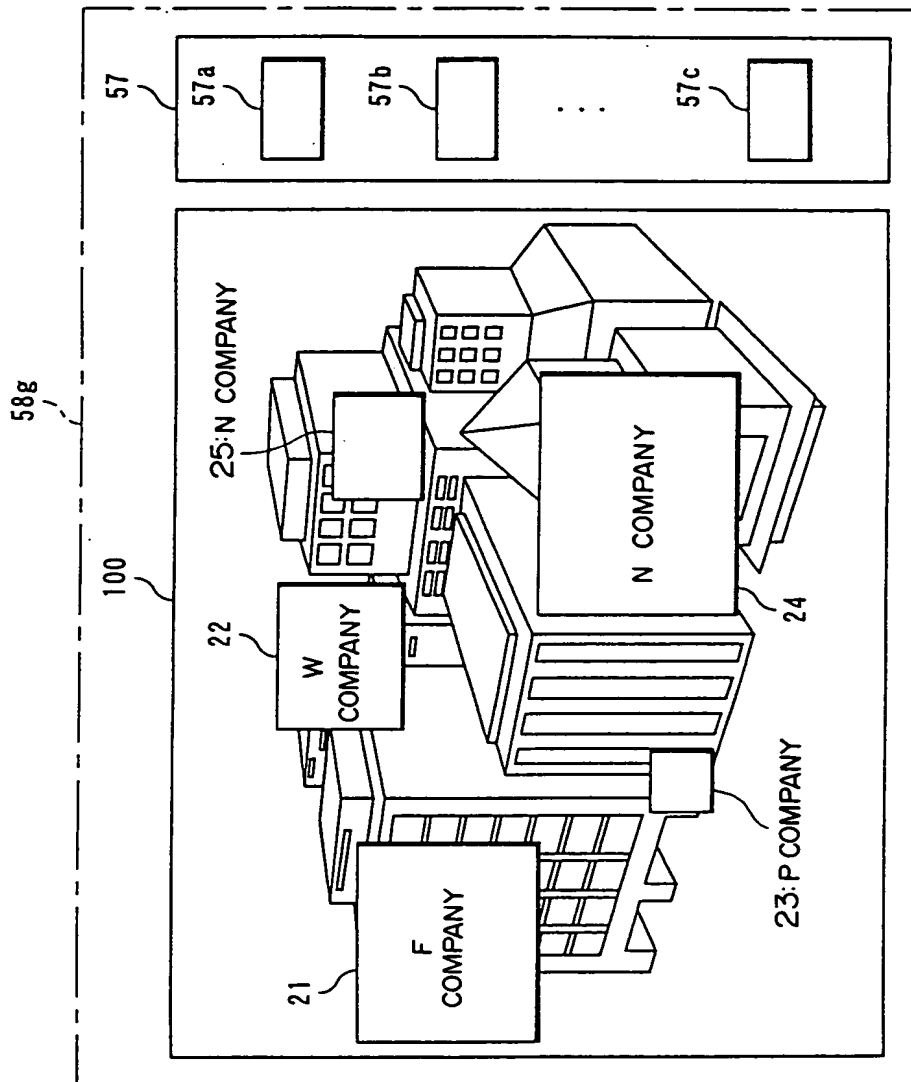




FIG. 21



# FIG. 22

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<code>&lt;bubble&gt;</code>	
<code>&lt;latitude&gt;139, 46, 1. 3&lt;/latitude&gt;</code>	LATITUDE 139° 46' 1.3"
<code>&lt;longitude&gt;35, 40, 45. 7&lt;/longitude&gt;</code>	LONGITUDE 35° 40' 45.7"
<code>&lt;altitude&gt;50&lt;/altitude&gt;</code>	ALTITUDE 50m
<code>&lt;size&gt;dynamic50&lt;/size&gt;</code>	BUBBLE DIAMETER 50m
<code>&lt;animation&gt;honsya. gif&lt;/animation&gt;</code>	DISPLAY CHARACTER honsya. gif
<code>&lt;lifedate&gt;01/04/27&lt;/lifedate&gt;</code>	DISPLAYABLE DATE : UP TO 2001/04/27
<code>&lt;/bubble&gt;</code>	

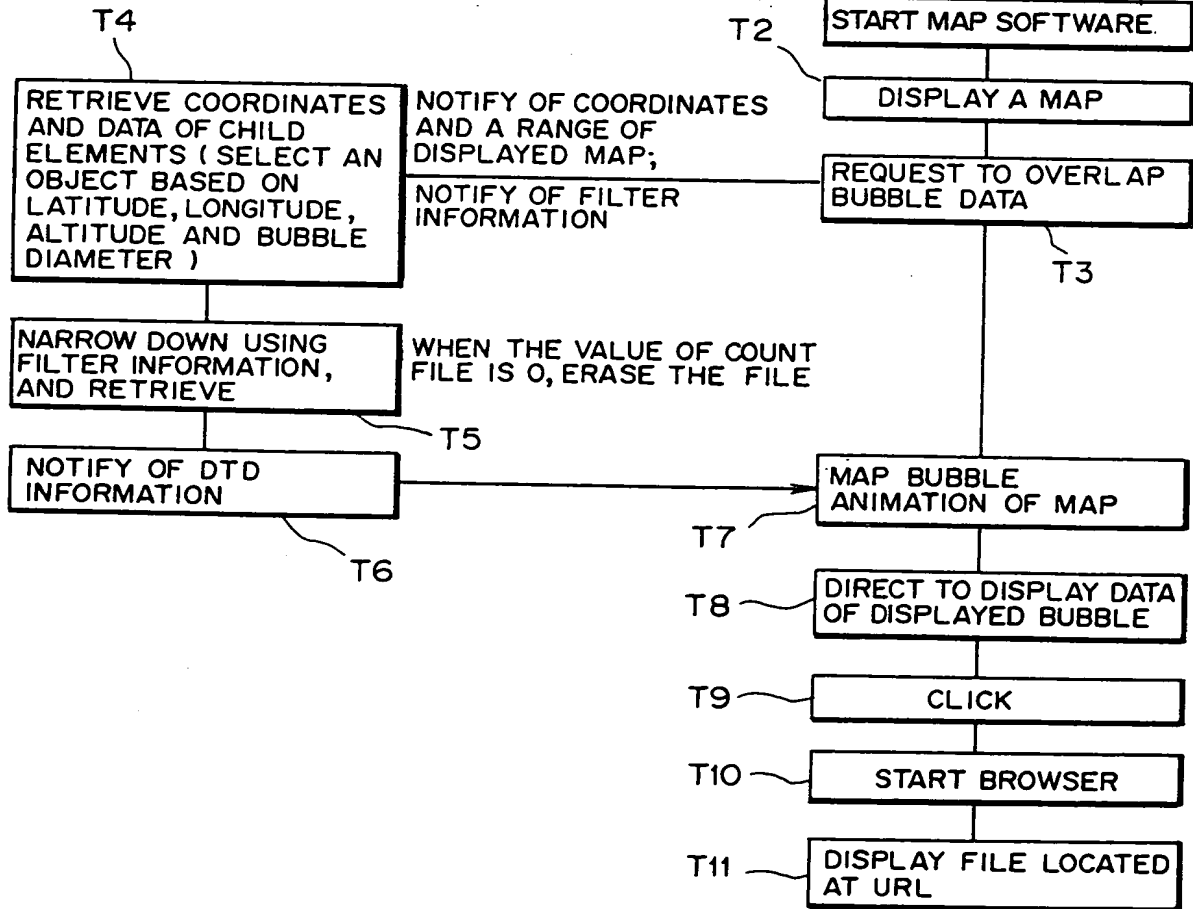
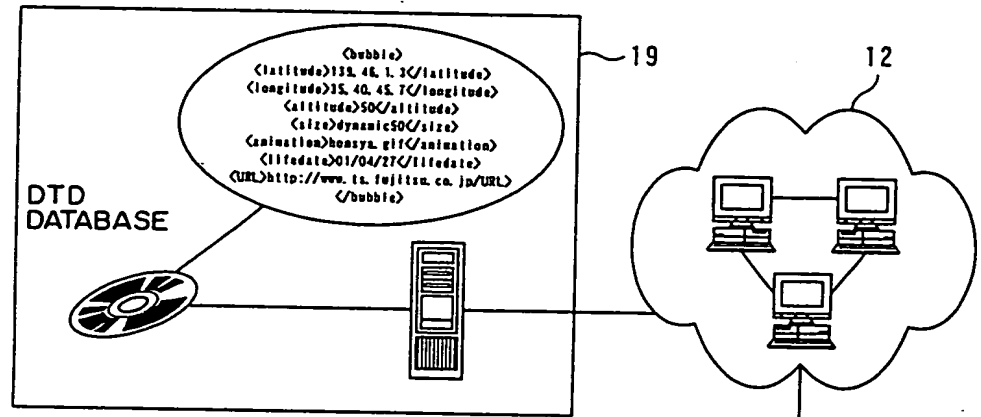
# FIG. 23(a)

- CHILD ELEMENTS OF DTD INFORMATION
- LATITUDE, LONGITUDE, ALTITUDE
  - BUBBLE DIAMETER
  - DISPLAY ANIMATION
  - ATTRIBUTE INFORMATION
  - STARTUP APPLICATION
  - STATE FILE NAME
  - URL

# FIG. 23(b)

- STATE FILE
- LIFE COUNTER
  - LIFE DATE
  - STARTUP FILE NAME
  - DYNAMIC BUBBLE DIAMETER
  - ACCESS HISTORY

# FIG. 24



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FIG. 25

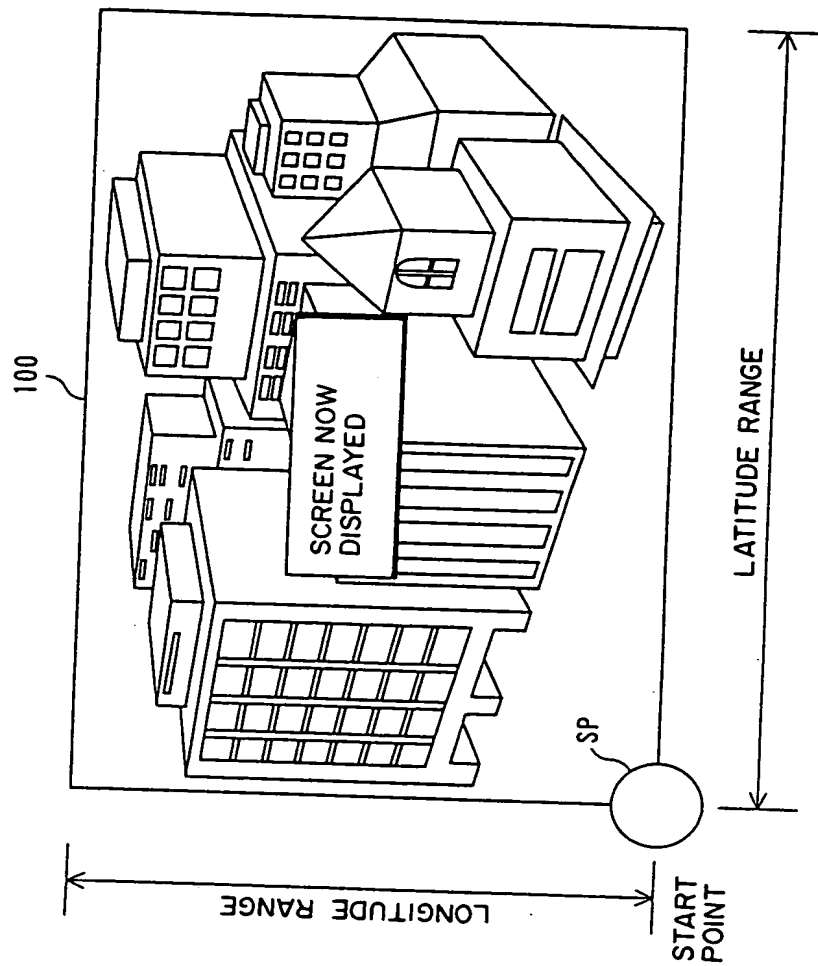




FIG. 26

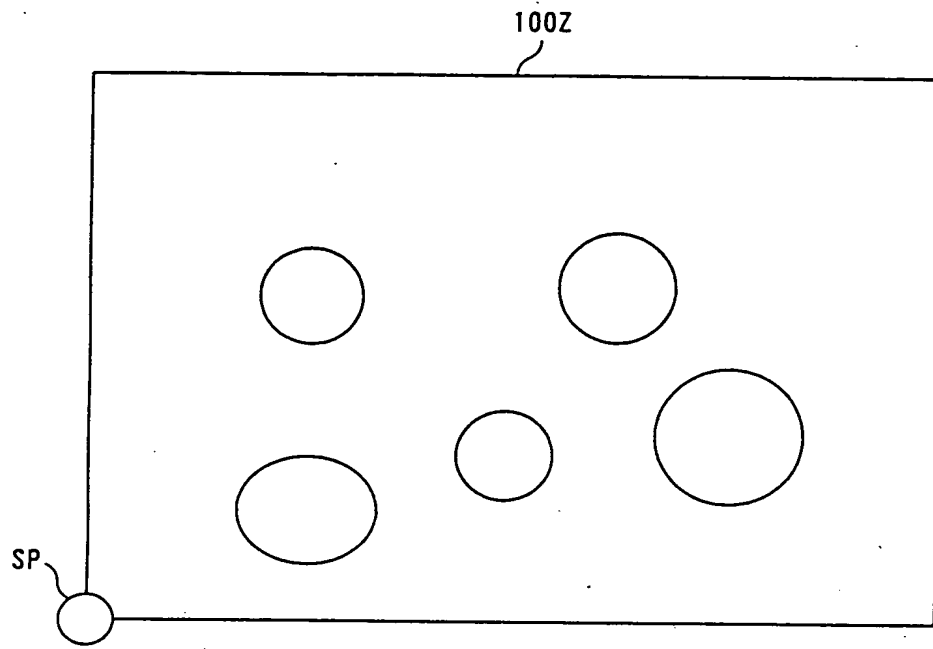
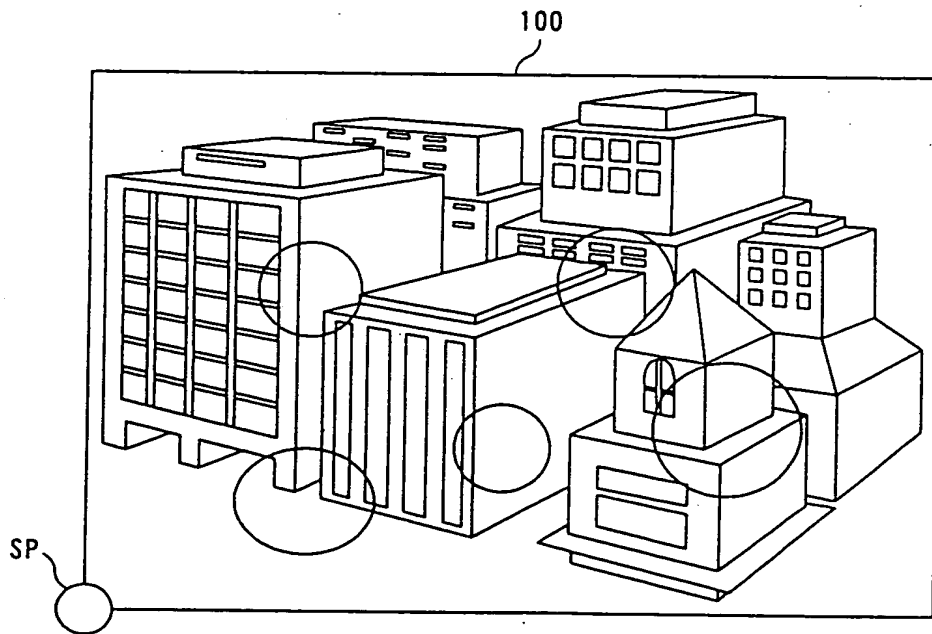
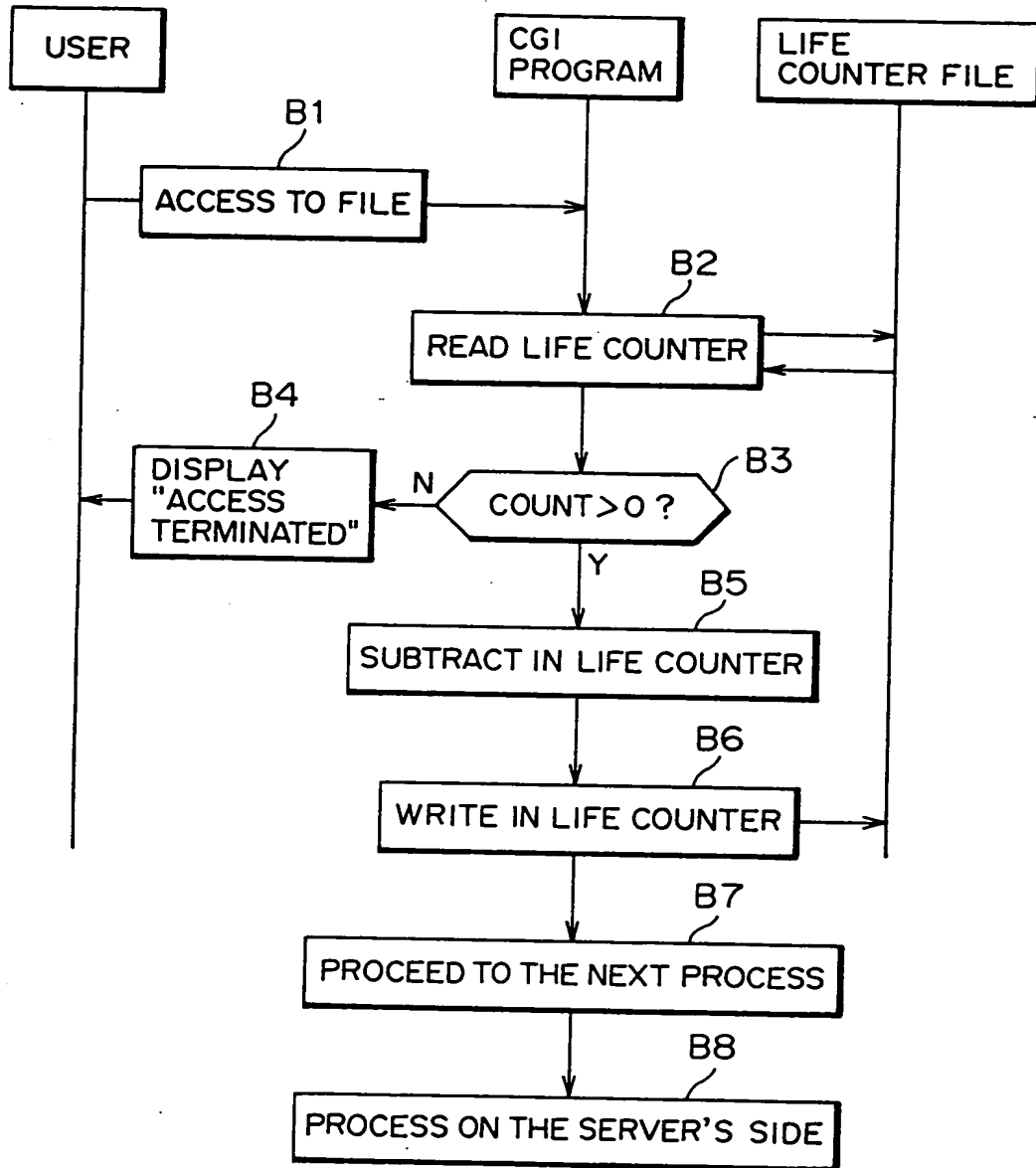


FIG. 27



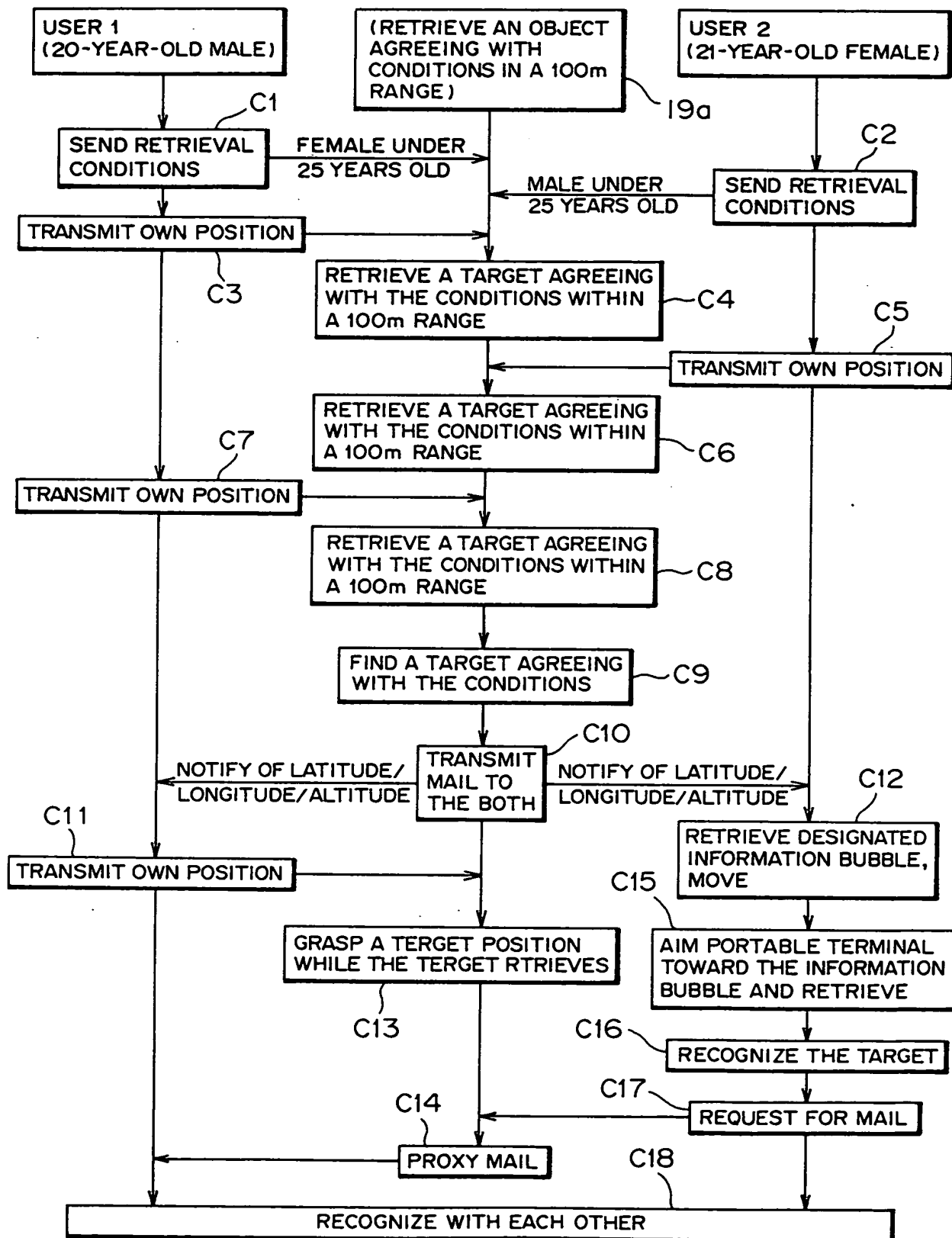
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FIG. 28



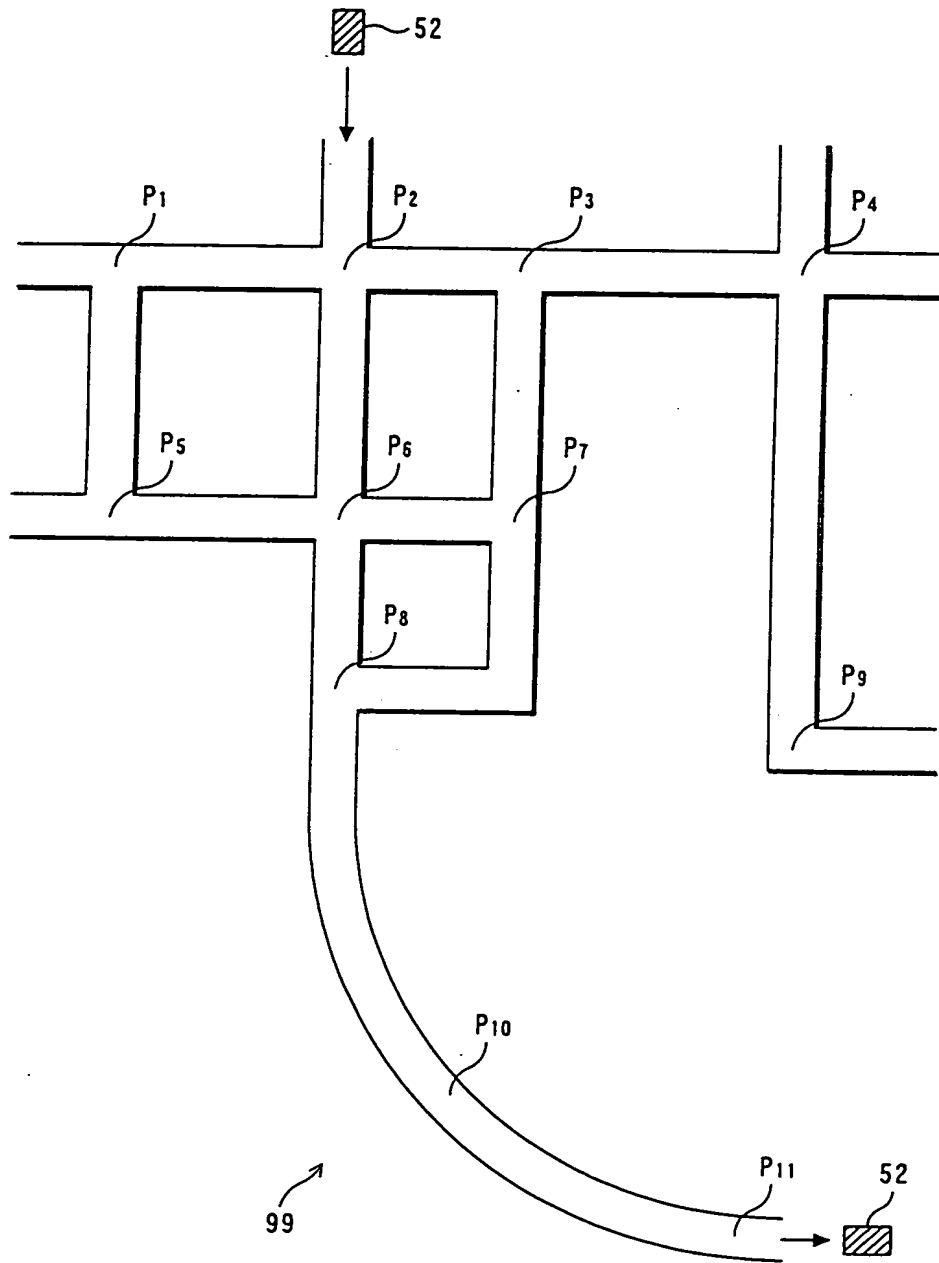
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# FIG. 29



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FIG. 30



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